

The **Bernhard Nocht Institute for Tropical Medicine** (<https://www.bnitm.de/en>) is the largest Research Institute for Tropical Medicine in Germany and is the National Reference Centre for Tropical Pathogens, a WHO Collaborating Centre and member of the Leibniz Research Association.

The **Department of Virology** at the **Bernhard Nocht Institute for Tropical Medicine** in Hamburg invites applicants for a position starting as of **1st October 2023** for the role of:

Bioinformatician/ Computational scientist / Pipeline developer (m/f/d)

We are looking for an enthusiastic team member to support our outbreak response programs in the field of genomic surveillance of highly pathogenic viruses. You will explore, assess and implement algorithms and tools to further develop versatile and user friendly nanopore sequencing (NGS) pipelines to improve the bioinformatics analyses capacity of the Virology department of the BNITM, especially in the context of field sequencing. Activities occur with a moderate degree of supervision with freedom for independent judgement.

Responsibilities:

- Develop, implement and maintain high-quality pipelines for the processing of next generation sequencing (NGS) data of the scientific team
- Develop custom scripts using open source available software, published methods and custom-made code to fully analyze NGS data
- Perform computational analysis, explore parameter settings, and ensure NGS result's quality
- Fully integrate quality assurance to daily work by ensuring records keeping and code annotations
- Deploy/install the pipeline(s) where appropriate and train the scientific team
- Supervise students
- Manage research projects and collaborations

Qualifications:

- Candidates with a PhD degree or any other equivalent combination of education and experience in bioinformatics, computational science, informatics and mathematics will be considered; a background in biology is an asset.

Specific qualifications include:

- Experience with Unix (BASH scripting)

- Extensive experience with Python and ability to work with different packages such as numpy, pandas, etc.
- Experience with Github; experience with DockerHub is a plus
- Experience with Nexflow
- Experience in developing bioinformatics pipelines for analysis of NGS data
- Ability to work independently and apply critical thinking and sound judgment
- Excellent organizational and time management skills
- Ability to work and communicate effectively in a multi-disciplinary team
- Good oral and written communication skills in English are required

Our benefits:

- An interesting and challenging job in a modern research institution
- A central location at the Landungsbrücken, easily accessible by public transport
- 30 days of vacation per year
- Flexible and family-friendly working hours
- Subsidy for childcare
- Subsidy for the HVV-ProfiTicket as “Deutschlandticket” (Basic)
- Company pension scheme
- Opportunities for further education and training
- Special conditions in selected sports and fitness clubs in Hamburg

The position is initially limited until **31 December 2025** and is remunerated in accordance with the German salary scheme for the public service (TV-AVH).

We support our employees in achieving a work-life balance and promote the professional equality of women and men. We strive to assist women in their scientific career, increase the number of women in research and reduce under-representation in all areas and positions in general.

We explicitly welcome applications from people with disabilities.



As a member of the [Diversity Charter](#), the largest diversity management network in Germany, we are also committed to making diversity an integral part of our institute culture. It is our goal to create a working environment that is free of prejudice.

Please send your application **by 18 August 2023** via our [online job portal](#) with the usual documents (CV, cover letter, high school and university certificates with grades, if applicable references). Alternatively you may apply by e-mail or postal mail **referring to "Bioinfo-VIRO"** to: Bernhard-Nocht-Institut für Tropenmedizin, HR Department, Bernhard-Nocht-Str. 74, 20359 Hamburg, Germany.

If you have questions about the application/selection process, please contact Ms. Jeannette Meurer (meurer@bnitm.de) from the HR Department.

For further questions please contact Dr. Sophie Duraffour (duraffour@bnitm.de, phone: +49 40 285380 641), Department of Virology.